

EOLLOS, Zoltanne, dr.; HASKO, Ferenc; JENEY, Zoltan; BOGDAN, Laszlonge;
BORSI, Miklos; ERDOS, Elemer; HALMOS, Laszlonge; JENEY, Ivan;
KARL, Imre; KONTA, Laszlo; SAGI, Lajos; ~~SIPCS, Lajos~~
STENGER, Vilmos; TIHANYI, Kalman

Removal of galvanic copper, nickel and chromium coatings.
Gepgyartastechn 2 no.8:319 Ag '62.

EOLLOS, Zoltanne, dr.; HASKO, Ferenc; JENEY, Ivan; BOGDAN, Laszlone;
BORSI, Miklos; ERDOS, Elemer; HALMOS, Laszlone; KARL, Imre;
KONTA, Laszlo; SAGI, Lajos; SIPOS, Lajos; STENGER, Vilmos;
TIHANYI, Kalman.

Summary of galvanization technologies. Gepgyartastechn 2 no. 9:
360 S '62.

OLIFER, A., kand. biolog. nauk; BOGDAN, L., nauchnyy sotrudnik

Controlling the codling moth *Carpocapsa pomonella*. Zashch. rast.
ot vred. i bol. 10 no.5:22-23 '65. (MIRA 18:6)

1. Ukrainskiy institut sadovodstva.

IANCU, Axente; POP, O.; BOGDAN, Liviu; BOGDAN, Fl.

Dispensary therapy of rheumatic children from children's collectivities
in Cluj. Probl. reumat., Bucur. no.5:85-88 1958.

(RHEUMATISM, in inf. & child

preschool & school child. of town of Cluj, Rumania, ther. &
long-term follow-up)

EXCERPTA MEDICA Sec 7 Vol 14/6 Pediatrics June 60

1834. CLINICAL DATA ON COXSACKIE VIRUS DISEASES IN INFANTS - Contribuții clinice la studiul îmbolnăvirilor cu virus Cocksackie la sugari - Mihailescu E., Bogdan L., Butnaru I., Roth T. and Rosenfeld C. Clin. de Ped. II, Cluj - PEDIATRIA (București) 1959, 8/4 (319-325)

Besides the common form of herpangina, encephalitic, pulmonary, and digestive forms liable to follow a severe course are identified. The great communicability of these infections and their untoward effects on the development of dystrophic or constitutionally small children, especially when the infection recurs frequently, are stressed. The importance of sustained symptomatic treatment is pointed out. (L, 7, 8)

BOGDAN, Lucia

Let's us Humanians use the educative force of the movie with
discernment and skill. Munca sindic 6 no.11:46-48 N '62.

SAVKOVSKIY, P.P., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.; OLIFER, A.V., nauchn. sotr.; SHCHERBAKOV, V.V., nauchn. sotr.; POVZUN, I.D., nauchn. sotr.; MASLO, Ye.M., nauchn. sotr.; KRYLOVA, A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.; VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO, D.P., nauchn. sotr.; BOGDAN, L.I., nauchn. sotr.; GROTE, G.M., nauchn. sotr.; SKUTSKAYA, N.P., red.; DAKHNO, Yu.B., tekhn. red.

[Pests and diseases of fruit and berry crops] Vrediteli i bolezni plodovo-iagodnykh kul'tur; spravochnik. Kiev, Izd-vo AN Ukr.SSR, 1962. 275 p. (MIRA 16:7)
(Fruit—Diseases and pests)

CHISU, A.; MAROS, D.; ALBU, T.; HULPE, Gh.; BOGDAN, M.; MATIESAN, Dorina;
DALY, A.; VERES, A.; SZABO, A.

Contributions to the studies on the wear of spur gear wheels with
straight teeth made of nodular graphite cast iron with the aid of
radioactive isotopes. Bul stiint polit Cluj 6:213-223 '63.

1. Institute of Atomic Physics, Magurele (for Szabo).

BOGDAN, M.

"Torque Motors" p. 293 (~~Elektrotechnika~~, Vol. 46, No. 10, October, 1953, Budapest)

East European Vol. 3, No. 3 1954
SO: Monthly List of ~~Russian~~ Accessions, Library of Congress, March ~~1954~~, Uncl.

BOGDAN, M.

Remarks on Frigyes Lamb's article "Evolution of Self-Inducted Synchronous Motors from Zipernowsky to Deri." p. 381. (Elektrotechnika, Budapest, Vol. 47, no. 12, Dec 1954)

30: Monthly list of East European Accessions (EEAL), LC Vol 4, no. 6, June 1955 Uncl

BOGDAN, M.

Three-phase commutator motors of the Egyed Small Motor Factory.
p.223. ELEKTROTECHNIKA. Budapest. Vol. 49, no. 7, July 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 4, No. 12, December 1956

621 311.33 421 3 012 11
V3101. SOME PROBLEMS OF THREE-PHASE COMMUTATION

MOTORS (M. Potok)

Elektricheskaya Vol. 49, No. 8, 238-41 (Aug. 1956) (in Russian)

The basic problems of three-phase commutator motors are discussed and the author treats them as a general case of induction motors. The similarity between the basic treatment of commutator and induction motors is shown, and the circle diagram is discussed, with particular reference to regulation. Commutator problems are discussed with different types of windings and a frequency converter or with commutators is described.

BOGDAN, M.

TECHNOLOGY

Periodicals: PETROL SI GAZE. Vol. 9, no. 8, Aug. 1958

BOGDAN, M. Optimum conversion in thermal cracking. p. 366

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

S/124/62/000/004/011/030
D251/D301

24,4300
26,2120
AUTHOR:

Bogdan, M.

TITLE: Investigating the behavior of aerodynamic profiles of small dimensions in the operation of a high-turnover axial compressor

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 4, 1962, 40, abstract 4B238 (Lucrari stiint. Inst. politechn. Cluj, 1960, 219-224)

TEXT: A discussion is given of the results of experimental investigation and the role of the factors reducing the efficiency of a one-step axial compressor with large bushing ratio (0.86) and short blades, operating at circa 18,000 r.p.m. A description of the experimental set-up is given. / Abstracter's note: Complete translation. 7

Card 1/1

FELSZECHY, E.; NAGY, L.; BOGDAN, M.

Tables and exergetic diagrams. Pt. 1. Studia Univ B-B S.
Chem 9 no. 1:111-118 '64.

BOGDAN, Mircea, ing.; FARSCH, Hans, ing.; OPINCA, Doru, ing.;
PETRESCU, Dumitru, ing.; TARTA, Ican, ing.

Tests for improving the variation law of ignition advance in
the LR-211 engine. Constr mas 16 no. 1:22-26 Ja '64.

ZAMFIR, C., general dr.; BODDAN, M., medic emerit, dr.; TEODORESCU, C.,
dr.

Considerations on a case of allergic phlebitis and neuritis after
antitetanus serotherapy. Med. intern., Bucur 13 no.4:599-602 Ap
'61.

1. Lucrare efectuata in Sectia I boli interne din S.M.C.
(PHLEBITIS etiology) (NEURITIS etiology)
(TETANUS immunology) (ALLERGY case reports)

POGDAN, M.

Reduction of losses in light products from crude oil. p. 114.
PETROL SI GAZE, Bucuresti, Vol. 6, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (EMAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

BOGDAN, M.

Reducing the Losses of Light Petroleum Products. Petrol Si Gaze (Petroleum and Gases), #3:114: Mar 55

BOGDAN, M., ing.; IANCOVICI, P., ing.; UNGUREANU, B., ing.

Results obtained by using CIFA digital computers for studying the
dynamic stability in the power system of Rumania. Energetica
Rum 11 no.7:304-308 J1 '63.

BOGDAN, M.I.

Profit factors in industrial enterprises. Izv. KPI 25:47-68 '57.
(Efficiency, Industrial) (MIRA 11:3)

BOGDAN, N.

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees: -not given-

Affiliation: -not given-

Source: Bucharest, Comunicarile Academiei Republicii Populare Romina,
Vol XI, No 8, 1961, pp 1079-1083.

Data: "Some Results of Seed Tests on Winter Wheat in Furrows."

Authors:

HOZA, Anastasia

DORNESEU, D.

BOGDAN, N.

BOGDAN, N.

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees:

Affiliation:

Source: Bucharest, Probleme Zootehnice si Veterinare, Vol XI, No 10,
Oct 1961, pp 67-68.

Data: "Observations on the Treatment of Coccidiosis in Chicks."

Authors:

RUSSU, T., -Veterinarian-, State Farm (Gospodaria Agricola de Stat,
Dej.

BOGDAN, N., -Veterinarian-, Raional People's Council (Sfatul
Popular Raional), Dej.

ILIESCU, C.C., prof.; KLEINERMAN, L., conf.; GUTA, G., dr.; DUMITRESCU, S., dr.;
BOGDAN, O. DUMITRESCU, dr.

Persistence of the left superior vena cava with flow into the
right auricle through the coronary sinus, demonstrated by cardiac
catheterisation. Med. intern., Bucur. 11. no. 5: 751-756 '60.

1. Lucrare efectuata in Clinica medicala a Spitalului "Bernat
Andrei", Bucuresti.

(VENAE CAVAE, abnormalities.)

(HEART DEFECTS, CONGENITAL, case reports)

(HEART CATHETERIZATION)

KLEINERMAN, L., conf.; BOGDAN, Olga Dumitrescu, dr.; LECCA, S.

Atrio-ventricular dissociation with and without interference. Med.
intern. 14 no.2:201-212 F '62.

1. Lucrare efectuata la A.S.C.A.R., Bucuresti.
(ARRHYTHMIA)

BOGDAN, P. I.

The wheats of Crimea. Moskva, "Sovetskaja nauka," 1941. 198 p.

Country : USSR M-4
CATEGORY :
ABS. JOUR. : RZBiol., No. 19 1959, No. 87004
AUTHOR : Bogdan, P. I.; Vorozhbitov, V. V.
INST. :
TITLE : Hard Wheat for Virgin Lands of Altai

ORIG. PUB. : Sb.: God raboty po osvoyeniyu tselinnykh i
zaleznykh zemel' v Altayskom kraye. Moscow;
ABSTRACT : No abstract.

CARD: //

Coverage : USSR
Category : CULTIVATED PLANTS.COMMERCIAL . Oleiferous. M
 : Sugar-Bearing.
Abs. Jour. : REF ZHUR-BIOL.,21,1958,NO-960 73

Author : Ryzarenko, V.S.; Bogdan, P.T.
Instit. : Altay Agric. Inst.
Title : Innovations in Beet Planting in the Altay.

Orig. Pub. : Tr.Altaysk. s.kh. in-ta, 1957, vyp.5, 63-79

Abstract : The use of bunch planting, long and cross tilling, preharvest side-dressing, single shoot beets and a number of other agricultural measures have made it possible to obtain, in the Altay, sugar beet yields which are not lower than those in the basic beet raising areas of the nation.

Card: 1/1

COUNTRY	: USSR	
CATEGORY	: Cultivated Plants - Industrial, Oleiferous, Sugar.	M
ABSTRACT	: VSNBiol., No.14, 1958, No. 63509	
AUTHOR	: Gynarenko, V., Bogdan, P.	
INST.	: -	
TITLE	: Something New in the Agricultural Technique for Sugar Beets in Altay.	
ORIG. PUB.	: S. kh. Sibiri, 1957, No. 12, 25-29	
REMARKS	: It is pointed out that the use of pocket and checkrow methods of planting, two-way cultivation in the maintenance of the plantings, pre-harvest top dressing and utilization of single-sprout seeds permit a considerable increase in the yield of sugar beets under the conditions of Siberia.	

Card: 1/1

28(1,5)

PHASE I BOOK EXPLOITATION

GER/2435

Bogdan, R. and Cr. Pelecudi

Ueber die experimentelle Bestimmung der Bewegungen in ebenen Getrieben (Experimental Determination of Motion in Even Drives) [Bucharest, Institutu de mecanica aplicata, 1957] 15 p. Number of copies printed not given. No additional contributors mentioned.

PURPOSE: This booklet may be useful to engineers concerned with gear mechanisms.

COVERAGE: The authors discuss the experimental study of gear parameters conducted at the laboratory of the Institute of Applied Mechanics in Budapest. They describe a mechanical reducer and discuss the experimental set-up. They also present a comparison of theoretical and experimental values and discuss an electrical system for compensating error. No personalities are mentioned. There are 3 references: 1 English, 1 Soviet, and 1 Hungarian. No Table of Contents is given; the book is subdivided as follows:
Card 1/2

Experimental Determination (Cont.)

GER/2435

EXPERIMENTAL ANALYSIS OF MOTION
IN A PLANE GEARING

I. Introduction	3
II. Characteristic quantities of system components	6
III. Calculation of errors and electrical compensation	8
1. Error due to the decrease in displacement caused by two connecting rods	8
2. Electrical compensation of errors by means of a wire resistor of variable cross section	10
3. Electrical compensation of errors by means of a wire resistor of constant cross section	12
Bibliography	16
AVAILABLE: Library of Congress	

Card 2/2

JP/jb
10-23-59

BOGDAN, R.

Contributions to the classification of spatial mechanisms.

p. 407 (Academia Republicii Populare Romine. Institutul de Mecanica Aplicata. Studii
Si Cercetari De Mecanica Aplicata. Vol. 8, no. 2, 1957. Bucaresti, Rumania)

Monthly Index of East European Accessions (EEAJ) LC. Vol. 7, no. 2,
February 1958

BOGDAN, R.

R. Bogdan, "Investigation of Mechanical Pickups for the Determination of the Operating Range of Planar Mechanisms in Rectangular and Polar Coordinate Systems."

paper presented at the 2nd All-Union Conf. on Fundamental Problems in the Theory of Machines and Mechanisms, Moscow, USSR, 24-28 March 1958.

BOGDAN, R.; MANGERON, D.

Study, research work, and prospects in the field of machines and mechanisms
carried out in Rumania. p.1093

STUDII SI CERCETARI DE MECANICA APLICATA. Academia Republicii Populare Romine
Bucuresti, Rumania
Vol. 9, no.4, 1958

Monthly List of East European Accessions (EEAI) LC., Vol. 9, no.1, Jan. 1960
Uncl.

16.4200

80415
RUM/8-59-1-8/24

AUTHORS: Bogdan, R.C., Pelecudi, Ch.

TITLE: Synthesis of a Four Bar Mechanism on the Basis of Harmonic Analysis ¹⁶

PERIODICAL: Studii si Cercetări de Mecanică Aplicată, 1959, Nr 1, pp 141 - 149 (RUM)

ABSTRACT: The basic problem of the synthesis of mechanism consists in the determination of the geometrical parameters of a mechanism in such a way that a point or an element of it should match some laws of the given motion. The present tendency in the synthesis of mechanism is to satisfy the laws of motion in a maximum finite number of points or the approximation of the respective function with an error as small as possible on a certain effective working position. These problems can be solved analytically by the methods of the Soviet school represented by L.P. Chebyshev [Ref 4], L.V. Assur, I.I. Artobolevskiy [Ref 1], Z.S. Bloch [Ref 3], L.N. Levitskiy [Ref 7], S.A. Cherkudinov and others; or the German school, represented by L. Burmester, H. Alt, R. Beyer [Ref 2], R. Kraus [Ref 6], K.Hain [Ref 5], W. Lichtenfeldt, and others. The authors develop in this article the kinematic parameters of a four bar mechanism, in function of the crank rotation angle φ , using the Fourier series in a complex form. They consider the harmonic analysis as being very important for the kinematic and dynamic

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characteristics of a mechanism, as did also W. Mayer zur Capellen [Ref 8]. They take into consideration the functions $\phi = \phi(\varphi)$, $\psi = \psi(\varphi)$, $Z = Z(\varphi)$ and $Z_0 = Z_0(\varphi)$ and their derivations as representing the speeds and accelerations for the geometrical parameters of a four-sided mechanism

(Figure):
$$e^{i\phi(\varphi)} = \sum_{k=-\infty}^{+\infty} A_k e^{ik\varphi}, \quad (1)$$

$$e^{i\psi(\varphi)} = \sum_{k=-\infty}^{+\infty} M_k e^{ik\varphi}, \quad (2)$$

$$Z_0(\varphi) = \sum_{k=-\infty}^{+\infty} N_k e^{ik\varphi}, \quad (3)$$

$$Z(\varphi) = \sum_{k=-\infty}^{+\infty} P_k e^{ik\varphi}, \quad (4).$$

The fix axes Oxy have their origin in the center of the basic element AD and the mobile axes $O\xi\eta$ are connected to the rod and have their

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origin in the center of the BC rod. The polygonal contours $OABO_1$ and $ODCO_1$ have thus the vectorial relation:

$$\overline{OO}_1 = \overline{OA} + \overline{AB} + \overline{BO}_1 = \overline{OD} + \overline{DC} + \overline{CO}_1 \quad \text{and} \quad \overline{OM} = \overline{OO}_1 + \overline{O}_1\overline{M}.$$

Using the complex representation of the vectors:

$$Z_o = \frac{1}{2} + re^{i\varphi} + \frac{L}{2} e^{i\psi} = \frac{1}{2} + Re^{i\phi} - \frac{L}{2} e^{i\psi} \quad (5)$$

and $Z = Z_o + \beta e^{i\psi}$ (Nr 6), the authors deduce the relation for the identification of the coefficients:

$$\sum_{k=-\infty}^{+\infty} (B_k e^{ik\varphi} + \overline{B}_k e^{-ik\varphi}) = 2\alpha_1 e^{i\varphi} + 2\alpha_{-1} e^{-i\varphi} + 2\alpha_0 \quad (13)$$

$$\sum_{k=-\infty}^{+\infty} (B_k + \overline{B}_{-k}) e^{ik\varphi} = 2\alpha_1 e^{i\varphi} + 2\alpha_{-1} e^{-i\varphi} + 2\alpha_0$$

and thus:

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$$\begin{aligned} B_0 + \bar{B}_0 &= 2\alpha_0, \\ B_1 + \bar{B}_{-1} &= 2\alpha_1, \\ &\dots\dots\dots \\ B_k + \bar{B}_{-k} &= 2\alpha_k. \end{aligned} \tag{14}$$

The constants B_k are the complex coefficients of the Fourier series for the function:

$$f(\varphi) = e^{i\phi} (\ell - re^{-i\varphi}) = \sum_{-\infty}^{+\infty} B_k e^{ik\varphi} \tag{15}$$

and its conjugate relation. The conditions (14) are being imposed by the geometry of the four-sided mechanism, by which the function ϕ depends from φ . Another series of relations between the coefficients A_k , respectively B_k can be obtained by taking the products of the relations (10) and (15), thus:

$$\sum_{-\infty}^{+\infty} A_k \bar{A}_k = 1 \quad \sum_{-\infty}^{+\infty} A_k \bar{A}_{k+m} = 0, \text{ for } m \neq 0. \tag{17}$$

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$$\sum_{-\infty}^{+\infty} B_k \bar{B}_{k+m} = \beta_m, \quad \beta_0 = 1^2 + r^2, \quad \beta_m = 0, \quad (18).$$

$$\beta_1 = \beta_{-1} = -1r, \quad m \neq -1, 0, +1.$$

Performing the transformation: $C_k = B_k - \alpha_k$ (Nr 19), the C_k constants are the complex coefficients of the Fourier series for the function:

$$F(\varphi) = f(\varphi) - \alpha_{-1} e^{-i\varphi} - \alpha_1 e^{i\varphi} - \alpha_0 = \sum_{-\infty}^{+\infty} C_k e^{ik\varphi} \quad (20)$$

and its conjugate. From the definition of the $F(\varphi)$ function results that:

$$F(\varphi) = -\bar{F}(\varphi) = \frac{f(\varphi) - \bar{f}(\varphi)}{2} \quad (22),$$

which attracts

$$C_k + \bar{C}_{-k} = 0, \quad C_k = \frac{B_k - \bar{B}_{-k}}{2} \quad (23)$$

the function $F(\varphi)$ being purely imaginary. The relation corresponding the points (17) and (18) leads after a deduction to:

$$\sum_{-\infty}^{+\infty} C_k \bar{C}_{-k+m} = -\gamma_m \quad (25)$$

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which shows that if C_k are the complex coefficients of the Fourier series for the function $F(\varphi)$, then $-\gamma_m$ are the complex coefficients of the Fourier series for the function $F^2(\varphi)$:

$$F^2(\varphi) = - \sum_{-2}^{+2} \gamma_m e^{im\varphi} = - (\gamma_0 + 2\gamma_1 \cos \varphi + 2\gamma_2 \cos 2\varphi) \quad (26).$$

For the determination of the constants C_k and then of B_k and finally of A_k , it would be necessary to solve the infinite system of the nonlinear equation (25) or to develop in a Fourier series the imaginary pair function:

$$F(\varphi) = F(-\varphi) = i \sqrt{\gamma_0 + 2\gamma_1 \cos \varphi + 2\gamma_2 \cos 2\varphi}, \quad (27)$$

$$\text{which attracts: } C_k = C_{-k}, \quad C_k + \bar{C}_k = 0, \quad (28).$$

The authors develop the $F(\varphi)$ function in a Fourier series, finally obtaining:

$$F(\varphi) = \sum_{n=0}^{\infty} \frac{F^{(n)}(0)}{n!} \left[\sum_{k=0}^n C_n^k e^{i(n-2k)\varphi} \right].$$

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Taking this formula for $n - 2k = m$ constant, the coefficient of the Fourier series is being obtained:

$$C_m = \sum_{n=0}^{\infty} \frac{F^{(n)}(0)}{n!} c \frac{n-m}{2}, \quad (36)$$

Since the variation law of the parameter ϕ, ψ, Z_0, Z , function of φ is given, the respective Fourier series has to be determined and compared with the parameter possibly reproduced by the four-sided mechanism, either satisfying in a maximum finite number of points or approximating an effective working portion with a minimum of error.

There are: 1 figure and 9 references, 5 of which are German and 4 Russian.

SUBMITTED: October 28, 1958

Card 7/7

BOGDAN, R., AND OTHERS.

The polar transducer for the investigation of mechanisms. p.771

STUDII SI CERCETARI DE MECANICA APLICATA. Academia Republicii Populare Romine
Bucuresti, Rumania
Vol. 10, no.3, 1959

Monthly List of East European Accessions (EEAI) I.C., Vol. 9, no.1, Jan. 1960
Uncl.

BOGDAN, R.: FELECUDI, CH.: CALMACIUC, L.

Experimental study of trajectories and velocities in mechanisms. p.868

METALURGIA SI CONSTRUCTIA DE MASINI. (Ministerul Industriei Metelurgice si Constructiilor de Masini si Asociatia Stiintifica a Inginerilor si Technicienilor din Romania) Bucuresti, Rumania
Vol.11, no.10 Oct 1959

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.2. Feb. 1960

Uncl.

BOGDAN, R. #
C.

PHASE I BOOK EXPLOITATION

SOV/4530

Vsesoyuznoye soveshchaniye po osnovnym problemam teorii mashin i mekhanizmov. 2d, Moscow, 1958.

Dinamika mashin; sbornik statey (Dynamics of Machines; Collection of Articles) Moscow, Mashgiz, 1960. 240 p. (Its: Trudy) Errata slip inserted. 3,000 copies printed.

Sponsoring Agency: Institut mashinovedeniya Akademii nauk SSSR.

Editorial Board: I. I. Artobolevskiy (Resp. Ed.) Academician, S. I. Artobolevskiy, Doctor of Technical Sciences, Professor, G. G. Baranov, Doctor of Technical Sciences, Professor, A. P. Bessonov, Candidate of Technical Sciences, V. A. Gavrilenko, Doctor of Technical Sciences, Professor, A. Ye. Kobrinskiy, Doctor of Technical Sciences, N. I. Levitskiy, Doctor of Technical Sciences, Professor, and L. N. Reshetov, Doctor of Technical Sciences, Professor;

Ed.: L. V. Bezmenova, Candidate of Technical Sciences; Managing Ed. for General Technical Literature and Literature on Transport Machine Building (Mashgiz);

~~Card 1/6~~

Dynamics of Machines (Cont.)

SOV/4530

A. P. Kozlov, Engineer; Tech. Ed.: B. I. Model'.

PURPOSE: This collection of articles is intended for engineers, designers, workers at scientific research institutes, and instructors at schools of higher technical education.

COVERAGE: This collection consists of reports presented at the All-Union Conference on Problems in the Theory of Machines and Mechanisms held in Moscow in 1958. The reports discuss several problems of the dynamic design of complex mechanical systems. No personalities are mentioned. References accompany most of the articles.

TABLE OF CONTENTS:

Bessonov, A. P., and A. V. Shlyakhtin, Candidates of Technical Sciences. Some Problems in the Dynamics of Machines of Vibratory Action

5

Blekhman, I. I., Candidate of Physics and Mathematics.
Theory of Self-Synchronization of Mechanical Vibrators
~~Card 2/6~~

Dynamics of Machines (Cont.)	SOV/4530	
and Its Several Applications		21
Bogdan, R., K. Pelekudi, and L. Kalmachuk (Bucharest). Mechanical-Electrical Transmitters for the Experimental De- termination of Trajectories in Plane Mechanisms		35
Burago, A. N., Candidate of Technical Sciences. Stands for Testing Objects for Impact Vibration		47
Vorob'yeva, T. S., Candidate of Technical Sciences. Dy- namics of the Rotation of Vertical Turrets		54
Damasevich, M., Candidate of Technical Sciences. Certain Cases of Undamped Natural Vibrations of Mechanisms With Elastic Elements		66
Kobrinskiy, A. Ye., Doctor of Technical Sciences. The Theory of Vibratory-Impact Mechanisms		72
Koshevnikov, S. N., and A. N. Lenskiy, Corresponding Mem- bers, Academy of Sciences USSR. Dynamic Investigation of card 3/6		

R/008/61/000/005/002/005
D289/D305

AUTHORS: Pelecudi, Chr., Bogdan, R. C., and Calmaciuc, L.
TITLE: On the bending stresses and deformations of caps in
crank-mechanisms
PERIODICAL: Studii și cercetări de mecanică aplicată, no. 5,
1961, 1047-1056

TEXT: The article deals with the stresses and deformations, to which piston rod caps are subjected. To determine the forces appearing in the caps of simple crank-mechanisms, the authors establish the following hypotheses. (a) The assembly axis of the cap to the rod is perpendicular to the axis of the rod. (b) The mass of the rod decomposed into two masses concentrated at the large end and small end of the rod is considered to be a simplifying factor. (c) V and H are the forces due to the crank pin, supplying the resultant P which acts on the cap. (d) $F(\theta)$ is the force due to the gas pressure exerted on the piston surface. (e) N and μN are the perpendicular and the tangential reactions between the cylinder

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On the bending stresses ...

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D289/D305

and the piston. (f) F_A and F_B are the inertia forces of the rod - piston system, considering the simplifying hypothesis of the distribution of the rod mass to the two points A and B. Starting with the expressions of H and V deduced from the force equilibrium (Fig. 1):

$$H = - F_B \sin (\theta + \delta) \quad (1)$$

$$V = F_B \cos (\theta + \delta) - \frac{(F + F_A) \cos \varphi}{\cos (\delta - \varphi)} \quad (2)$$

in which $\varphi = \arctg \mu$ is the friction angle, positive for θ between 0 and 180° and negative for θ between 180° and 360° , the authors deduce, after having established the expressions of the inertia forces F_B and F_A :

$$F_B = m_B r \omega^2 \quad (5)$$

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On the bending stresses ...

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D289/D305

and

$$F_A = m_A \ddot{x}_A = - m_A r \omega^2 \left[\frac{\cos(\theta + \delta)}{\cos \delta} + \lambda \frac{\cos^2 \theta}{\cos^3 \delta} \right] \quad (6)$$

the relations

$$H = - m_B r \omega^2 \sin \theta \quad (9)$$

and

$$V = (m_A + m_B) r \omega^2 \cos \theta \quad (10)$$

which supply the approx. shape of the variation of the H and V forces, based on the boundary case $\lambda = 0$ and $\delta = 0$. H describes a sine line and V a cosine line. θ approx varies between $-\pi/2$ and $+\pi/2$. The angle α under which the P(H and V) force stresses the

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cap, varies approx. linearly with the time:

$$\operatorname{tg} \alpha = \frac{V}{H} \approx - \left(1 + \frac{m_B}{m_A} \right) \operatorname{ctg} \theta, \alpha \approx \pi/2 + \theta \quad (11) \quad \checkmark$$

To establish the forces which stress the cap of the master and articulated rods of a V-engine (Fig. 3), the authors deduce for H:

$$H = - M_H r \omega^2 \sin \theta - m_A r \omega^2 \lambda \sin 2\theta \sin \gamma \sin \frac{\gamma}{2} + \\ + [F_2(\theta_2) - F_1(\theta_1)] \sin \frac{\gamma}{2} \quad (25)$$

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in which M_H is given by:

$$M_H = 2 \left(m_B + m_A \sin^2 \frac{\gamma}{2} \right)$$

and for V:

$$V = M_V r \omega^2 \cos \theta + 2 m_A r \omega^2 \lambda \left[\cos^2 \theta \cos^2 \frac{\gamma}{2} + \sin^2 \theta \sin^2 \frac{\gamma}{2} \right] \cos \frac{\gamma}{2} - \\ - [F_1(\theta_1) + F_2(\theta_2)] \cos \frac{\gamma}{2}$$

in which M_V is given by:

$$M_V = 2 \left(m_B + m_A \cos^2 \frac{\gamma}{2} \right) \quad (26)$$

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On the bending stresses ...

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D289/D305

To determine the deformations of the rod cap, the authors take into consideration the resultant P of the forces H and V, the reacting force of the screws F, and the supporting forces H_1 and H_2 between the rod and cap accomplished by a wedge, bolts, or friction, as shown in Fig. 5. The bending moments on the (1 - P) and (P - 2) sections are given by: ✓ -

$$M_1 = (H_1 \sin \psi + F \cos \psi)r - F(e + r) \quad (29)$$

and

$$M_2 = (H_2 \sin \psi - F \cos \psi)r - F(e + r) \quad (30)$$

and, according to Castigliano's theorem, the non-impeded displacement of the support No. 1 in case of a constant bending rigidity is given by:

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$$u_1 = \frac{r^3}{2EI} \left[\pi H_2 - H \left(\alpha + \operatorname{tg} \alpha \left(1 + \frac{2e}{r} \right) \right) \right] \text{ and } u_2 = 0 \quad (32)$$

The authors finally establish the deformation and force diagrams of the separation plane. According to the type of action of forces and deformations, they distinguish the following cases. (a) Lateral displacement impeded by wedges in a single direction. (b) The displacement of both supports is impeded in every moment. (c) The displacement of the no. 2 support is impeded and the no. 1 support supplies an elastic reaction. (d) The no. 1 support supplies an elastic reaction followed by a constant force, due to possible friction. In accordance with these situations, various forces are produced in the assembly screws, depending on whether the screws react to the stresses produced by the cap by elastic bending, shearing, etc. These stresses may be avoided or reduced by using corresponding wedges, bushings, or bolts with close tolerances. ✓

Card 7/9

BOGDAN, R.C.; PELECUDI, Chr.; CALMACIRC, L.

On some spherical curves, and mechanisms necessary for their
construction. Studii ceram, mec apl 13 no.1:63-77 '62.

PELECUDI, Chr.; BOGDAN, R.C.; CALMACIUC, L.

Motion of a sphere with fixed center for the automatic control
of the surface. Studii cerc mecatron 13 no.3:749-759 '62.

MANGERON, D.; BOGDAN, R.C.

The third All-Union conference on the basic problems of the theory of mechanisms and machines, held in Moscow, June 23-28, 1961. Studii cerc mec apl 13 no.3:783-790 '62.

PELECUDI, Chr.; BOGDAN, R.C.

Synthesis of cam mechanisms at the prescribing of the values of cam arcs. Studii cerc mec apl 13 no.6:1541-1547 '62.

BOGDAN, Radu C.

Use of harmonic analysis in the study of the plane Assur groups
of the 2d and 3d aspects. Studii cerc mecatronica 14 no.2:365-
371 '63.

BOGDAN, Radu C.

Use of the harmonic analysis for studying plane Assur
groups of aspect II and II. Rev mec appl 8 no. 4: 533-539
'63.

BOGDAN, Radu C.

Analytic considerations on kinematic groups with two
elements. Studii cerc mec apl 15 no.1:65-87 '64.

MANGERON, D.; BOGDAN, R.C.

Second General Conference on the Dynamics of Machines
in Czechoslovakia, October 18-20, 1961, Smolenice.
Studii cerc mec apl 15 no.1:259-262 '64.

BOGDAN, Radu K. [Bogdan, Radu C.]

Analytical considerations on two-link kinematic groups.
Rev mec appl 9 no. 3:525-548 '64.

BOGDAN, Radu C.

General study of five-bar mechanisms with the aid of complex harmonic series. Rev mec appl 9 no.4:851-868 '64.

BOGDAN, Dana I.

Five-ber mathematics. Pt. 1. Rev mec appl 9 no.5:1019-1062 '64.

1. Institute of Applied Mechanics, Romanian Academy.

BOGDAN, Radu C.

Five-bar mechanisms. Pt.2. Rev mec appl Roum 9 no.6:
1249-1262 '64.

1. Institute of Applied Mechanics of the Rumanian Academy,
Bucharest. Submitted December 20, 1963.

BOGDAN, Radu C.

General study on mechanisms with five articulated elements by complex symmetrical series. Studii cerc mec apl 15 no.2:361-378 '64.

1. Submitted December 5, 1963.

BOGDAN, Radu, C.

Mechanisms with five articulated elements. Pt.1. Studi
cerc mac apl 17 no.5:1207-1250 '64.

1. "Traian Vuia" Institute of Applied Mechanics of the Romanian
Academy, Bucharest. Submitted December 20, 1963.

BOGDAN, Radu, C.

Mechanisms with five articulated elements. Pt.2. Studii
cerc mec apl 17 no.6:1451-1464 '64.

1. Institute of Applied Mechanics, Rumanian Academy.
Submitted December 20, 1963.

SA

738. The molecular structure of tetramethane.
 BOGDAN, S. AND STEFANESCU, D. *Bull. Soc. Roumaine
 Phys.*, 42 (No. 78) 73-86 (1941) in German.

541.654 : 535.343.4 : 535.375.56

ASS-54 METALLURGICAL LITERATURE CLASSIFICATION

13000 SIMILAR 130000 MET OXY 404 0211101

13000000 01 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

BOGDAN, Sandor, dr., fovarosi birosagi tanacsvezeto biro

Who is the realizer of an innovation? Ujit lap 15 no.20:8 25 0 '63.

BOGDAN, Sandor, dr., tanacsvezeto-biro

Legal debates about the innovation-invention laws as reflected
in the judicial practice. Ujit lap 15 no.24:7 25 D '63.

1. Fovarosi Birozag.

BOGDAN, Sandor, dr., tanacsvezeto biro

Problems relating to the authorship of innovations. Ujit lap
16 no. 3: 8-9 10 F '64.

1. Fovarosi Birozag.

CZECHOSLOVAKIA/Radio Physics - Electronic and Ionic Emission.

I-

Abs Jour : Ref Zhur Fizika, No 3, 1960, 6503

Author : Sujah Bogdan

Inst : Institute of Physics, Polish Academy of Sciences,
Institute of Experimental Physics of the Bierut
University, Wroclaw, Poland

Title : Parent Exoelectronic Emission, Caused by Liberation of
Water of Crystallization with Increasing Temperature.

Orig Pub : Chekhosl. fiz. zh., 1958, 8, No 5, 616-617

Abstract : In some cases, when using open counters, the liberation
of the water of crystallization upon heating of the salt
is accompanied by an increase in the counting rate, which
can be mistaken for exoelectronic emission. In a similar
manner, when working with counters in the region of the
so-called prolonged discharge (at increased voltage),

Card 1/2

BOGDAN, T.

RUMANIA/Farm Animals. Honeybees

Q-6

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 50122

Author : Bogdan T.

Inst : ~~-----~~

Title : Honey Crops from Bee Colonies of Various Type Beehives

Orig Pub : Apicultura, 1957, No 6, 18-23

Abstract : The most popular beehive type in Rumania is the D.-Blatt type with a 435 x 300 frame and with several compartments. When twin-chamber beehives are used, honey crops are increased by 30 percent. Horizontal beehives are also becoming popular.--V.A. Kanzyuba

Card : 1/1

UP03110-85

ACCESSION NR: AP5023241

RU/0012/64/000/005/0765/0770

AUTHOR: Carpinisan, C. (Doctor, Professor); Bogdan, Th. Tr. (Doctor, Lieutenant Colonel. Candidate of medical sciences); Toma, T. (Doctor, Professor)

TITLE: Surgical treatment of excavated thorax by the support of the sternum and a costal graft

SOURCE: Revista sanitara militara, no. 5, 1964, 765-770

TOPIC TAGS: thoracic surgery

ABSTRACT: The authors report very good results, both immediate and long range, with the use of the technique which they describe in detail, starting from the first incision through the post-operative measures. Orig. art. in Romanian.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

NR REF SOV: 000

OTHER: 000

Card 1 of 1

L 63115-65

ACCESSION NR: AP5023242

RU/0012/64/000/005/0001/0080

AUTHOR: Oancea, Tr. (Doctor, Colonel); Bogdan, Tr. (Doctor, Lieutenant Colonel);
Singer, D. (Doctor, Lieutenant Colonel)

TITLE: Contributions to the diagnosis and treatment of mediastinal tumors

SOURCE: Revista sanitara militara, no. 5, 1964, 771-780

TOPIC TAGS: tumor, therapeutics

ABSTRACT: A discussion of 18 cases of mediastinal tumors treated between 1958 and 1964, of which 11 were operated. On the basis of the data obtained from these cases, the authors summarize the types and localizations of such tumors, diagnostic techniques and problems, and complications. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LC

NR REF SOV: 000

OTHER: 026

JPRS

Card 1/1 KC

L 64559-65

ACCESSION NR: AP5023481

RU/0012/61/000/006/0993/1001

AUTHOR: Petrulian, Gh. (Major General, Doctor); Oancea, Tr. (Doctor in medical sciences, Doctor emeritus, Colonel, Doctor); Pachman, M. (Lieutenant Colonel, Doctor); Rordan, Tr. (Lieutenant Colonel, Doctor); Marinescu, I. (Lieutenant Colonel, Doctor); Popescu, P. (Candidate of medical sciences, Lieutenant Colonel).

TITLE: Biliary lithiasis, observations based on 150 cases

SOURCE: Revista sanitara militara, no. 6, 1964, 993-1001

TOPIC TAGS: surgery, digestive system disease, internal medicine, digestive system

ABSTRACT: The authors have reached the following conclusions: the only treatment for chronic lithic cholecystitis is cholecystectomy. In regular cases the surgery and postoperative period proceed smoothly; when septic, mechanical and other complications are present the surgery and postoperative period are more difficult. 3. Acute cholecystitis cases, promptly operated had a much better and rapid recovery than those delayed. 4. Antibiotics are not an actual treatment but only an aid in preparing for operation and in postoperative care. 13 references, mainly Rumanian.

Card 1/2

L 64569-65

ACCESSION NR: AP5023481

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 013

JF&S

mlh
Card 2/2

KARPINISHAN, K. [Carpinisan, C.], professor; ZITTI, Ye. [Zitti, E.],
kand.med.nauk; BOGDAN, Tr.

Cardiac and respiratory arrest in thoracic operations. Vest.khir.
89 no.7:85-92 J1 '62. (MIRA 15:8)

1. Iz Bukharestkoy kliniki grudnoy khirurgii "Filaret" (dir. -
prof. K. Karpinishan)
(CHEST—SURGERY) (HEART FAILURE) (ANOSEMIA)

KARPINISHAN, K. [Carpinisan,C], prof., doktor; BOGDAN, Tr. [Bogdan,Traian],
kand.med.nauk, doktor; KOMAN,K. [Coman,C], doktor

Decortication of the lung. Vest. khir. 90 no.3:30-35 Mr'63.

(MIRA 16:10)

1. Iz Bukharestskoy kliniki grudnoy khirurgii (dir. - prof.
doktor K.Karpinishan).

(LUNGS—DISEASES)

(PLEURA—SURGERY)

BOGDAN, T.T.

USSR / Human and Animal Physiology. Respiration.

T-5

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3440

Author : Bogdan, T. T.

Inst : Not given

Title : Restoration of Intactness of Trachea Following
Resection in Experiment

Orig Pub : Vestn. khirurgii, 1957, 97, No 9, 80-91

Abstract : 51 operations for resection of trachea and bronchi were performed on 45 dogs. Resections of short segments ended with simple suturing of the ends, resection of the bifurcation of the trachea with a T-shaped anastomosis; in tracheal resections that were longer than 5 cm, alloplastic was applied. About 30% of the animals died. In the animals that survived in series I and II, the experiments concluded with restoration of the tracheal intactness. Making prostheses with plexiglass tubes

Card 1/2

BOGDAN, T.T., kand.med.nauk (Bukharest)

Contribution to Rumanian surgeons to the development of surgery of
the esophagus. Vest.khir. 83 no.9:127-134 S '59. (MIRA 13:2)
(SURGERY, history)
(ESOPHAGUS, surg.)

KARPINISHAN, K. [Carpinisan, C.]; ~~BOGDAN~~, T.T.; SKUREY, Al. [Scurei, Al.]

Development of viewpoints in the surgical treatment of pulmonary tuberculosis. Grud.khir. 5 no.1:106-110 Ja-F '63. (MIRA 16:7)

1. Iz kliniki grudnoy khirurgii "filaret" (dir.-prof. K.Karpinishan) Bukharest.

(TUBERCULOSIS) (ANTIBIOTICS) (LUNGS—SURGERY)

BOGDAN, V. Dr.; BOGDAN, Galina, dr.; ILCENCO, A., dr.; BURLA, C., dr.;
STRENC, I., dr.

Pleural calcifications as a problem in diagnosis of lung
pathology. Med. int., Bucur. 8 no.4:596-602 Aug 56.

1. Lucrare efectuata in Sanatoriul de tuberculoza T. Vladimirescu
Raion Tg. Jiu.

(TUBERCULOSIS PULMONARY, differ. diag.

pericardial, intra-pulm. & other pleural calcifications)

(PLEURA, diseases

calcifications, pericardial, intra-pulm. & others
causing diag. problems in tuberc. & other lung dis.)

IVANCENKO, O.; BOGDAN, V.; BARBU, E.

Bronchography with barium sulphate. Rumanian M Rev. no.2:34-36 Ap-Je
'60.

1. This work was carried out at the Hospital of Tuberculosis, Sibiu.
(BARIUM SULFATE) (BRONCHI radiography)

TOPCIU, Vl.; KRAUSZ, N.; BOGDAN, Valeria

Kidney diseases caused by Coxsackie virus. Stud. cercet. infra-
microbiol., Bucur. 11 no.1:133-140 '60.

1. Comunicare prezentata la Institutul de inframicrobiologie al
Academiei R.P.R. in sedinta din 16 septembrie 1959.

(KIDNEY DISEASES, etiology)

(COXSACKIE VIRUSES, infection)

Country	: USSR	
Category	: Farm Animals.	Q-3
	: Swine.	
Abs. Jour	: Ref Zhur-Biol., No 16, 1958, 74076	
Author	: Bogdan, V. A.	
Institut.	: Kharkov Zootechnical Institute.	
Title	: The Problem of Hypotrophy in Piglets.	
Orig Pub.	: Sb. tr. Khar'kovsk. zootekhn. in-t, 1957, 9, 201-205	
Abstract	: The smallest number of piglets with hypotrophy is found in sows: 3-4 years old (8.6 percent), with a live weight of 168-190 kg (10.0 percent) at the 4th and 5th farrows (8.3 percent). The largest number is found in sows: 1-2 years of age (17.5 percent), with a live weight of 120-150 kg (18.7 percent), at the 1st and 2nd farrows (15.08 percent). At weaning, the piglets with hypotrophy displayed a live weight of 12 kg, whereas normal piglets had a live weight of 10.8 kg. In underdeveloped piglets, the Hb	
Card:	1/2	

BOGDAN, V.F.

Krasnodar Economic Council solves an important agricultural
problem. Sakhr. prom. 32 no. 7:5-7 Jy '58. (MIRA 11:8)

1. Krasnodarskiy sakhsveklotrest.
(Krasnodar Territory--Sugar industry)

BOGDAN, VYACHESLAV IOSIFOVICH

N/5
661.4
.Y9

Gidravlika i Gidravlicheskiye Mashiny (Hydraulics and Hydraulic Machinery, By) I. G. Yes'man, Bogdan Iosifovich Yes'man, i Vyacheslav Iosifovich Bogdan. Baku, Aznefteizdat, 1955.
478 P. Diagrs.

IVANOV, Yevgeniy Abramovich, kand.tekhn.nauk. Prinsipal uchastiye BOGDAN
V.M., inzh.. AKIMOVA, A.G., red.izd-va; TIKHANOV, A.Ya., tekhn.red.

[Couplings of drives] Mufty privodov. Izd.2., perer. i dop.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 410 p.
(MIRA 13:4)

(Couplings)

BOGDAN, V. M.

Elastic sleeves. Stroitel' no. 3:11 Mr '61. (MIRA 14:2)
(Gearing)

BOGDAN, E. V.

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Soils and Fertilizers

Experimental use of phosphorus³² isotope for characterization of methods of extraction of mobile forms of soil phosphates. E. V. Bogdan. *Izvest. Akad. Nauk S.S.S.R., Ser. Biol.* 1953, No. 5, 63-71. It is pointed out that in the prepn. of aq. exts. of soil specimens the processes of soln. and pptn. of phosphates must be considered. By means of P³²-labeled phosphate the lability or mobility of phosphate in various soil specimens was examd., the methods of Truog (dil. H₂SO₄ at pH 3), of Kirsanov (0.2N HCl), of Egner (lactate method of extn.), and the NH₄F method (0.1N soln.) being used. It was shown that 0.2N HCl does not ext. all the phosphate added to a soil, leaving behind 32-65% of "absorbed form." Low-saline chernozem and mid-podzols absorb 62-8% of added phosphate. Sandy podzol soil in subplowing horizons absorbs the least amts. of phosphate. The results are explained by the variation of content of R₂O₃ metallic oxides. The Truog method is more efficient than the Kirsanov method for extg. phosphate. The NH₄F method exts. generally less than 50% of the added phosphate. The lactate method exts. 77-100% of added phosphate only from sandy podzols; from other soils the efficiency is only 35-65%.
G. M. Kosolapoff

8-19-54.

Rm L

CSASZAR, Akos; ERDOS, Pal; TURAN, Pal; KARTESZI, Ferenc; FRIED, Ervin;
WIEGANDT, Richard; CSIPSZER, Janos; KALMAR, Laszlo; KONCZ, Karoly;
MAJTHAY, Antal ; BOGDAN, Zoltan; HAJNA, Janos; HETYEI, Gabor;
SURANYI, Janos

Mathematical problems. Mat lapok 14 no.1/2:163-169 '63.

1. "Matematikai Lapok" felelos szerkesztoje (for Turan). 2. "Mate-
matikai Lapok" szerkeszto bizottsagi tagja (for Kalmar),

BOGDAN-TEODORESCU, Gabriela

On the solution of some equations which can be found in the
elasticity theory. Rev math Roum 10 no.2:155-164 '65.

1. Military Academy, Bucharest. Submitted July 21, 1964.

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESS AND PROPERTIES INDEX																			
<i>ca</i>										<i>9</i>									
Representative samples of ferrochromium. N. V. Vlovenko and A. G. Hromaulchenko. <i>Zashchita Lab.</i> 5, 220-0(1080). The Cr content of different samples of the same ingot of Fe-Cr-Si alloy varied from 48 to 52%, and the Si content from 0.4 to 1.7%. The necessity of specifying standard conditions of sampling is pointed out. B. C. A.																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
SUBJECT										REFERENCE									
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20										21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40									

COMMON ELEMENTS		COMMON PARAMETERS	
1. <i>ca</i> 2. Application for rapid phase vacuum distillation. A. G. Bogdanovskiy, Leningrad, M. W. D. -		3. <i>1</i>	
4. ASM-51A METALLURGICAL LITERATURE CLASSIFICATION		5. COMMON PARAMETERS	
6. COMMON ELEMENTS		7. COMMON PARAMETERS	

21

Rapid determination of carbon in fuels, using the Würtz apparatus. A. G. Bogdanchenko. *Zvezdikiye* Lab. 6, 105-7(1937); cf. C-A-30, 59061. The C content of coal, coke and charcoal is detd. by means of a slightly modified Würtz app. B. C. A.